BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANKA DIVISION

Name of Work: Construction of Additional floor to Kenchenahalli Samudhaya Bhavana in Ward No-01.

DETAILED ESTIMATE

Estimated Cost: 50.00 Lakhs

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	FIRST FLOOR								
1	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge. Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 10 m3) Cost of Haulage Excluding Loading and Unloading Case-1 : Surfaced Road Taking output 10 t load and lead 10 km = 100 t.km (KPWD SR 2023-24, Volume-II, Item No.19.2.1, Page No.187) (KPWD SR 2023-24, Volume-III, Item No.1.1 b, Page No.5) (KPWD SR 2023-24, Volume-III, Item No.1.4 a, Page No.5)								
		Cum							
	Exposed Columns								
			10	0.23	0.45	0.75	0.78		
						Total Quantity	0.78	2129.16	1652.76
	Rate Analysis								
	Basic rate in Rs.	1663.00							
	Loading	119.00							
	Lead 1.28x10x12	153.60							
	Area Weitage @10%	193.56							
	Total Amount in Rs.	**2129.16**							
2	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Column Above Roof								
	C1		10	0.23	0.45	2.90	3.00		
	Column Above Roof								
	C1		10	0.23	0.45	0.90	0.93		
						Total Quantity	3.93	12924.37	50831.56
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 70% for Column	4790.10							
	Sub Total	**11633.10**							
	1% fir Lift Charges	116.33							
	Area Weitage @10%	1174.94							
	Total Amount in Rs.	**12924.37**							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
3	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Overall Lintel								
			2	16.16	0.23	0.15	1.12		
			3	5.93	0.23	0.15	0.61		
	Roof Beam								
			2	16.16	0.23	0.45	3.35		
			5	5.93	0.23	0.45	3.07		
						Total Quantity	8.14	12164.12	99048.63
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 60% for Lintel & Roof Beam	4105.80							
	Sub Total	10948.80							
	1% fir Lift Charges	109.49							
	Area Weitage @10%	1105.83							
	Total Amount in Rs.	12164.12							
4	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Roof Slab								
			1	16.39	6.16	0.15	15.14		
	Deduction for Stair Case		-1	3.40	2.20	0.15	-1.12		
	Stair Case								
	Wasit Slab-1		1	3.50	1.10	0.15	0.58		
	Wasit Slab-2		1	3.50	1.10	0.15	0.58		
	Landing		1	2.20	1.00	0.15	0.33		
	Steps		20	1.10		0.075	1.65		
						Total Quantity	17.16	11403.86	195660.12
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 50% for Roof Slab & Stair Case	3421.50							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Sub Total	10264.50							
	1% fir Lift Charges	102.65							
	Area Weitage @10%	1036.71							
	Total Amount in Rs.	11403.86							
5	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. (KPWD SR 2023-24, V-I, Item No.2.11(a), Page No.18)								
		Tonne							
	For Column @200Kgs/Cum			3.93		0.20	0.79		
	For Lintel @80Kgs/Cum			1.73		0.08	0.14		
	For Roof Beam @250Kgs/Cum			6.41		0.25	1.60		
	For Roof Slab @175Kgs/Cum			14.02		0.175	2.45		
	For Stair Case @150Kgs/Cum			3.14		0.15	0.47		
						Total Quantity	5.45	99386.73	541910.14
	Rate Analysis								
	Basic Rate	89457.00							
	1% fir Lift Charges	894.57							
	Area Weightage @10%	9035.16							
	Total Amount	99386.73							
6	Providing Brick work with common burnt clay modular bricks of class designation 3.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand) including cost of all materials, labour, scaffolding and usage charges of machinery & other incidental charges complete as per the direction of engineer incharge of work (KPWD SR 2023-24, V-II, Item No.6.4, Page No.13)								
		Cum							
	Outter Wall		2	16.16	0.23	2.90	21.56		
			3	5.93	0.23	2.90	11.87		
	Parapet Wall		2	16.16	0.23	0.90	6.69		
			2	5.93	0.23	0.90	2.46		
	Deductions								
	Door		-1	1.50	0.23	2.10	-0.72		
	Windows, W		-2	2.00	0.23	1.20	-1.10		
						Total Quantity	40.74	9622.37	392016.65
	Rate Analysis								
	Basic Rate	8661.00							
	1% fir Lift Charges	86.61							
	Area Weightage @10%	874.76							
	Total Amount	9622.37							
7	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	Outside								
			2	16.39		3.45	113.09		
			3	6.16		3.45	63.76		
	Parapet Wall		2	16.16		0.90	29.09		
			2	5.93		0.90	10.67		
	Deductions								

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Door		-1	1.50		2.10	-3.15		
	Windows, W		-2	2.00		1.20	-4.80		
						Total Quantity	208.66	393.29	82064.33
	Rate Analysis								
	Basic Rate	354.00							
	1% fir Lift Charges	3.54							
	Area Weightage @10%	35.75							
	Total Amount	**393.29**							
8	Providing 15 mm cement plaster with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.7, Page No.42)								
		Sqm							
	Inside								
			2	15.93		3.30	105.14		
			3	5.70		3.30	56.43		
	Deductions								
	Door		-1	1.50		2.10	-3.15		
	Windows, W		-2	2.00		1.20	-4.80		
						Total Quantity	153.62	406.63	62465.07
	Rate Analysis								
	Basic Rate	366.00							
	1% fir Lift Charges	3.66							
	Area Weightage @10%	36.97							
	Total Amount	**406.63**							
9	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement:6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.1.2, Page No.41)								
		Sqm							
	For Ceiling								
			1	15.93	5.70		90.80		
						Total Quantity	90.80	267.75	24312.06
	Rate Analysis								
	Basic Rate	241.00							
	1% fir Lift Charges	2.41							
	Area Weightage @10%	24.34							
	Total Amount	**267.75**							
10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.. (KPWD SR 2023-24, V-II, Item No.8.51, Page No.50)								
		Sqm							
	Vide Qty from Item No.	7					208.66		
	Vide Qty from Item No.	8					153.62		
	Vide Qty from Item No.	9					90.80		

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
						Total Quantity	453.08	111.10	50336.97
	Rate Analysis								
	Basic Rate	100.00							
	1% fir Lift Charges	1.00							
	Area Weightage @10%	10.10							
	Total Amount	**111.10**							
11	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.27, Page No.45)								
		Sqm							
	Vide Qty from Item No.	7					208.66		
						Total Quantity	208.66	58.88	12286.47
	Rate Analysis								
	Basic Rate	53.00							
	1% fir Lift Charges	0.53							
	Area Weightage @10%	5.35							
	Total Amount	**58.88**							
12	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 L/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.29, Page No.45)								
		Sqm							
	Vide Qty from Item No.	7					208.66		
						Total Quantity	208.66	314.41	65605.10
	Rate Analysis								
	Basic Rate	283.00							
	1% fir Lift Charges	2.83							
	Area Weightage @10%	28.58							
	Total Amount	**314.41**							
13	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m² over and including one coat of Special primer applied @ 0.75 L/10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be 50% @ 60 degree angle with 10 years life) (KPWD SR 2023-24, V-II, Item No.8.33.1, Page No.46)								
		Sqm							
	Vide Qty from Item No.	8					153.62		
	Vide Qty from Item No.	9					90.80		
						Total Quantity	244.42	175.54	42904.82
	Rate Analysis								

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Basic Rate	158.00							
	1% fir Lift Charges	1.58							
	Area Weightage @10%	15.96							
	Total Amount	**175.54**							
14	Providing and laying Cement concrete pavement with 1:2:4 for commercial & residential building floors, hardpaths, footpaths using 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size, including finishing complete as per Engineer incharge. (KPWD SR 2023-24, V-II, Item No.9.4, Page No.59)								
		Sqm							
	For Flooring								
			1	15.93	5.70	0.10	9.08		
							Total Quantity	9.08	7405.93	67246.55
	Rate Analysis								
	Basic Rate	6666.00							
	1% fir Lift Charges	66.66							
	Area Weightage @10%	673.27							
	Total Amount	**7405.93**							
15	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications. (KPWD SR 2023-24, V-II, Item No.9.30, Page No.64)								
		Sqm							
	For Flooring								
			1	15.93	5.70		90.80		
	For Skirting								
			2	21.63		0.10	4.33		
	For Stair Case								
	Riser		20	1.10		0.15	3.30		
	Thread		20	1.10	0.25		5.50		
	Landing		1	2.20	1.00		2.20		
							Total Quantity	106.13	5919.41	628209.01
	Rate Analysis								
	Basic Rate	5328.00							
	1% fir Lift Charges	53.28							
	Area Weightage @10%	538.13							
	Total Amount	**5919.41**							
16	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. (KPWD SR 2023-24, V-II, Item No.11.34(B), Page No.86)								
		Kgs							
	Windows		2	2.00		1.20	4.80		
							4.80	Sqm	
						45Kgs per Sqm	216.00	Kgs	
							Total Quantity	216.00	203.31	43915.61
	Rate Analysis								
	Basic Rate	183.00							
	1% fir Lift Charges	1.83							
	Area Weightage @10%	18.48							
	Total Amount	**203.31**							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
17	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (KPWD SR 2023-24, V-II, Item No.12.90, Page No.110)								
		Sqm							
	Windows		2	2.00		1.20	4.80		
							Total Quantity	**4.80**	**7481.47**	**35911.08**
	Rate Analysis								
	Basic Rate	6734.00							
	1% fir Lift Charges	67.34							
	Area Weightage @10%	680.13							
	Total Amount	**7481.47**							
18	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (KPWD SR 2023-24, V-II, Item No.12.11, Page No.99)								
		Cum							
	Door		1	7.20	0.10	0.10	0.07		
							Total Quantity	**0.07**	**153400.21**	**11044.82**
	Rate Analysis								
	Basic Rate	138074.00							
	1% fir Lift Charges	1380.74							
	Area Weightage @10%	13945.47							
	Total Amount	**153400.21**							
19	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (KPWD SR 2023-24, V-II, Item No.12.15, Page No.100)								
		Sqm							
	Door		1	1.50		2.10	3.15		
							Total Quantity	**3.15**	**8270.28**	**26051.39**
	Rate Analysis								
	Basic Rate	7444.00							
	1% fir Lift Charges	74.44							
	Area Weightage @10%	751.84							
	Total Amount	**8270.28**							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
20	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @0.75 L/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.2, Page No.46)								
		Sqm							
	Door		2	1.50		2.10	6.30		
						Total Quantity	6.30	153.32	965.90
	Rate Analysis								
	Basic Rate	138.00							
	1% fir Lift Charges	1.38							
	Area Weightage @10%	13.94							
	Total Amount	**153.32**							
21	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @ 0.80 L/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.3, Page No.47)								
		Sqm							
	Door		2	1.50		2.10	6.30		
						Total Quantity	6.30	154.43	972.90
	Rate Analysis								
	Basic Rate	139.00							
	1% fir Lift Charges	1.39							
	Area Weightage @10%	14.04							
	Total Amount	**154.43**							
22	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KPWD SR 2023-24, V-II, Item No.11.28, Page No.85)								
		Kgs							
	Stair Case								
	Wasit Slab-1		1	3.50		1.00	3.50		
	Wasit Slab-2		1	3.50		1.00	3.50		
							7.00	Sqm	
						12Kgs per Sqm	84.00	Kgs	
						Total Quantity	84.00	627.72	52728.06
	Rate Analysis								
	Basic Rate	565.00							
	1% fir Lift Charges	5.65							
	Area Weightage @10%	57.07							
	Total Amount	**627.72**							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
23	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU wate proofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction , joints completely as per specification.. (KPWD SR 2023-24, V-II, Item No.15.1, Page No.148)								
		Sqm							
	Terrace Slab								
			1	16.39	6.16		100.96		
						Total Quantity	100.96	907.69	91642.26
	Rate Analysis								
	Basic Rate	817.00							
	1% fir Lift Charges	8.17							
	Area Weightage @10%	82.52							
	Total Amount	907.69							
	SECOND FLOOR								
24	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Column Above Roof								
	C1		6	0.23	0.45	2.90	1.80		
	Column Above Roof								
	C1		6	0.23	0.45	0.90	0.56		
						Total Quantity	2.36	12924.37	30498.94
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 70% for Column	4790.10							
	Sub Total	11633.10							
	1% fir Lift Charges	116.33							
	Area Weitage @10%	1174.94							
	Total Amount in Rs.	12924.37							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
25	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Overall Lintel								
			2	9.33	0.23	0.15	0.64		
			2	5.93	0.23	0.15	0.41		
	Roof Beam								
			2	9.33	0.23	0.45	1.93		
			2	5.93	0.23	0.45	1.23		
						Total Quantity	4.21	12164.12	51232.34
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 60% for Lintel & Roof Beam	4105.80							
	Sub Total	10948.80							
	1% fir Lift Charges	109.49							
	Area Weitage @10%	1105.83							
	Total Amount in Rs.	12164.12							
26	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Roof Slab								
			1	9.33	6.16	0.15	8.62		
	Stair Case								
	Wasit Slab-1		1	3.50	1.10	0.15			
	Wasit Slab-2		1	3.50	1.10	0.15			
	Landing		1	2.20	1.00	0.15			
	Steps		20	1.10		0.075			
						Total Quantity	8.62	11403.86	98311.76
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 50% for Roof Slab & Stair Case	3421.50							
	Sub Total	10264.50							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	1% fir Lift Charges	102.65							
	Area Weitage @10%	1036.71							
	Total Amount in Rs.	**11403.86**							
27	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. (KPWD SR 2023-24, V-I, Item No.2.11(a), Page No.18)								
		Tonne							
	For Column @200Kgs/Cum			2.36		0.20	0.47		
	For Lintel @80Kgs/Cum			1.05		0.08	0.08		
	For Roof Beam @250Kgs/Cum			3.16		0.25	0.79		
	For Roof Slab @175Kgs/Cum			8.62		0.175	1.51		
	For Stair Case @150Kgs/Cum			0.00		0.15	0.00		
						Total Quantity	**2.85**	**99386.73**	**283705.49**
	Rate Analysis								
	Basic Rate	89457.00							
	1% fir Lift Charges	894.57							
	Area Weightage @10%	9035.16							
	Total Amount	**99386.73**							
28	Providing Brick work with common burnt clay modular bricks of class designation 3.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand) including cost of all materials, labour, scaffolding and usage charges of machinery & other incidental charges complete as per the direction of engineer incharge of work (KPWD SR 2023-24, V-II, Item No.6.4, Page No.13)								
		Cum							
	Outter Wall		2	9.33	0.23	2.90	12.45		
			2	5.93	0.23	2.90	7.91		
	Parapet Wall		2	9.33	0.23	0.90	3.86		
			2	5.93	0.23	0.90	2.46		
	Deductions								
	Door		-1	1.20	0.23	2.10	-0.58		
	Windows, W		-2	2.00	0.23	1.20	-1.10		
						Total Quantity	**24.99**	**9622.37**	**240471.52**
	Rate Analysis								
	Basic Rate	8661.00							
	1% fir Lift Charges	86.61							
	Area Weightage @10%	874.76							
	Total Amount	**9622.37**							
29	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	Outside								
			2	9.33		3.45	64.38		
			2	6.16		3.45	42.50		
	Parapet Wall		2	9.33		0.90	16.79		
			2	5.93		0.90	10.67		
	Deductions								
	Door		-1	1.20		2.10	-2.52		

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Windows, W		-2	2.00		1.20	-4.80		
						Total Quantity	127.03	393.29	49959.74
	Rate Analysis								
	Basic Rate	354.00							
	1% fir Lift Charges	3.54							
	Area Weightage @10%	35.75							
	Total Amount	393.29							
30	Providing 15 mm cement plaster with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.7, Page No.42)								
		Sqm							
	Inside								
			2	8.87		3.30	58.54		
			2	5.70		3.30	37.62		
	Deductions								
	Door		-1	1.20		2.10	-2.52		
	Windows, W		-2	2.00		1.20	-4.80		
						Total Quantity	88.84	406.63	36125.47
	Rate Analysis								
	Basic Rate	366.00							
	1% fir Lift Charges	3.66							
	Area Weightage @10%	36.97							
	Total Amount	406.63							
31	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement:6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.1.2, Page No.41)								
		Sqm							
	For Ceiling								
			1	8.87	5.70		50.56		
						Total Quantity	50.56	267.75	13537.22
	Rate Analysis								
	Basic Rate	241.00							
	1% fir Lift Charges	2.41							
	Area Weightage @10%	24.34							
	Total Amount	267.75							
32	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.. (KPWD SR 2023-24, V-II, Item No.8.51, Page No.50)								
		Sqm							
	Vide Qty from Item No.	29					127.03		
	Vide Qty from Item No.	30					88.84		
	Vide Qty from Item No.	31					50.56		
						Total Quantity	266.43	111.10	29600.37

l No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Rate Analysis								
	Basic Rate	100.00							
	1% fir Lift Charges	1.00							
	Area Weightage @10%	10.10							
	Total Amount	111.10							
33	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.27, Page No.45)								
		Sqm							
	Vide Qty from Item No.	29					127.03		
						Total Quantity	127.03	58.88	7479.85
	Rate Analysis								
	Basic Rate	53.00							
	1% fir Lift Charges	0.53							
	Area Weightage @10%	5.35							
	Total Amount	58.88							
34	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 L/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.29, Page No.45)								
		Sqm							
	Vide Qty from Item No.	29					127.03		
						Total Quantity	127.03	314.41	39939.57
	Rate Analysis								
	Basic Rate	283.00							
	1% fir Lift Charges	2.83							
	Area Weightage @10%	28.58							
	Total Amount	314.41							
35	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m² over and including one coat of Special primer applied @ 0.75 L/10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be 50% @ 60 degree angle with 10 years life) (KPWD SR 2023-24, V-II, Item No.8.33.1, Page No.46)								
		Sqm							
	Vide Qty from Item No.	30					88.84		
	Vide Qty from Item No.	31					50.56		
						Total Quantity	139.40	175.54	24470.17
	Rate Analysis								
	Basic Rate	158.00							

l No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	1% fir Lift Charges	1.58							
	Area Weightage @10%	15.96							
	Total Amount	**175.54**							
36	Providing and laying Cement concrete pavement with 1:2:4 for commercial & residential building floors, hardpaths, footpaths using 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size, including finishing complete as per Engineer incharge. (KPWD SR 2023-24, V-II, Item No.9.4, Page No.59)								
		Sqm							
	For Flooring								
			1	8.87	5.70	0.10	5.06		
							Total Quantity	**5.06**	**7405.93**	**37443.62**
	Rate Analysis								
	Basic Rate	6666.00							
	1% fir Lift Charges	66.66							
	Area Weightage @10%	673.27							
	Total Amount	**7405.93**							
37	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications. (KPWD SR 2023-24, V-II, Item No.9.30, Page No.64)								
		Sqm							
	For Flooring								
			1	8.87	5.70		50.56		
	For Skirting								
			2	14.57		0.10	2.91		
							Total Quantity	**53.47**	**5919.41**	**316528.50**
	Rate Analysis								
	Basic Rate	5328.00							
	1% fir Lift Charges	53.28							
	Area Weightage @10%	538.13							
	Total Amount	**5919.41**							
38	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. (KPWD SR 2023-24, V-II, Item No.11.34(B), Page No.86)								
		Kgs							
	Windows		2	2.00		1.20	4.80		
							4.80	Sqm	
						45Kgs per Sqm	216.00	Kgs	
							Total Quantity	**216.00**	**203.31**	**43915.61**
	Rate Analysis								
	Basic Rate	183.00							
	1% fir Lift Charges	1.83							
	Area Weightage @10%	18.48							
	Total Amount	**203.31**							

No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
39	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (KPWD SR 2023-24, V-II, Item No.12.90, Page No.110)								
		Sqm							
	Windows		2	2.00		1.20	4.80		
						Total Quantity	4.80	7481.47	35911.08
	Rate Analysis								
	Basic Rate	6734.00							
	1% fir Lift Charges	67.34							
	Area Weightage @10%	680.13							
	Total Amount	7481.47							
40	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (KPWD SR 2023-24, V-II, Item No.12.11, Page No.99)								
		Cum							
	Door		1	6.60	0.10	0.10	0.07		
						Total Quantity	0.07	153400.21	10124.41
	Rate Analysis								
	Basic Rate	138074.00							
	1% fir Lift Charges	1380.74							
	Area Weightage @10%	13945.47							
	Total Amount	153400.21							
41	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (KPWD SR 2023-24, V-II, Item No.12.15, Page No.100)								
		Sqm							
	Door		1	1.20		2.10	2.52		
						Total Quantity	2.52	8270.28	20841.12
	Rate Analysis								
	Basic Rate	7444.00							
	1% fir Lift Charges	74.44							
	Area Weightage @10%	751.84							
	Total Amount	8270.28							

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
42	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @0.75 L/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.2, Page No.46)								
		Sqm							
	Door		2	1.20		2.10	5.04		
						Total Quantity	5.04	153.32	772.72
	Rate Analysis								
	Basic Rate	138.00							
	1% fir Lift Charges	1.38							
	Area Weightage @10%	13.94							
	Total Amount	153.32							
43	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @ 0.80 L/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.3, Page No.47)								
		Sqm							
	Door		2	1.20		2.10	5.04		
						Total Quantity	5.04	154.43	778.32
	Rate Analysis								
	Basic Rate	139.00							
	1% fir Lift Charges	1.39							
	Area Weightage @10%	14.04							
	Total Amount	154.43							
	WATR SUPPLY WORK								
44	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2023-24, Volume-II, Item No.13.34, Page No.122)								
		Ltr							
			1000				1000.00		
						Total Quantity	1000.00	9.90	9900.00
	Rate Analysis								
	Basic Rate	9.00							
	Area Weightage @10%	0.90							
	Total Amount	9.90							
45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes (KPWD SR 2023-24, Volume-II, Item No.13.31.3, Page No.122)								
		mtr							
			1	60.00			60.00		
						Total Quantity	60.00	349.80	20988.00
	Rate Analysis								

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Basic Rate	318.00							
	Area Weightage @10%	31.80							
	Total Amount	349.80							
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes (KPWD SR 2023-24, Volume-II, Item No.13.31.4, Page No.122)								
		mtr							
			1	60.00			60.00		
						Total Quantity	60.00	440.00	26400.00
	Rate Analysis								
	Basic Rate	400.00							
	Area Weightage @10%	40.00							
	Total Amount	440.00							
47	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore (KPWD SR 2023-24; Volume-II, Item No.13.4.1, Page No.117)								
		Nos							
			2				2.00		
						Total Quantity	2.00	603.90	1207.80
	Rate Analysis								
	Basic Rate	549.00							
	Area Weightage @10%	54.90							
	Total Amount	603.90							
48	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 32 mm nominal bore (KPWD SR 2023-24, Volume-II, Item No.13.4.2, Page No.117)'								
		Nos							
			2				2.00		
						Total Quantity	2.00	657.80	1315.60
	Rate Analysis								
	Basic Rate	598.00							
	Area Weightage @10%	59.80							
	Total Amount	657.80							
49	Providing and fixing gun metal non- return valve of approved quality (screwed end) : 32 mm nominal bore Vertical (KPWD SR 2023-24, Volume-II, Item No.13.6.2.2, Page No.118)								
		Nos							
			1				1.00		
						Total Quantity	1.00	1017.50	1017.50
	Rate Analysis								
	Basic Rate	925.00							
	Area Weightage @10%	92.50							
	Total Amount	1017.50							
50	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 100 mm diameter (KPWD SR 2023-24, Volume-II, Item No.13.48, Page No.125)								

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
		m							
			1	50.00					
							50.00		
						Total Quantity	50.00	320.10	16005.00
	Rate Analysis								
	Basic Rate	291.00							
	Area Weightage @10%	29.10							
	Total Amount	320.10							
	ELECTRIC WORK								
51	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NP screws. (ELE SR 2023-24 Page-2, Item-1.1.2)								
		m							
	b) 25mm dia 2mm thick								
	Concealed Conduit System		100						
							100.00		
						Total Qty	100.00	81.00	8100.00
52	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2023-24 Page-2, Item-1.2.2)								
		m							
	b) 25mm dia 2mm thick								
			100						
							100.00		
						Total Qty	100.00	78.00	7800.00
53	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2023-24 Page-2, Item-1.3.2)								
		m							
	b) 25mm dia 2mm thick								
			100				100.00		
						Total Qty	100.00	79.00	7900.00
54	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2023-24 Page-1, Item-1.4)								
	c) 135x75x65mm	each							
			30				30.00		
						Total Qty	30.00	139.00	4170.00
55	d)180x90x65mm								
			30				30.00		
						Total Qty	30.00	161.00	4830.00
56	e)200x90x65mm								
			30				30.00		
						Total Qty	30.00	179.00	5370.00
57	Supplying and fixing PVC/metal conduit accessories.(3/5) b)25mm junction box (ELE SR 2023-24 Page-3, Item-1.5)								
		each							
			20				20.00		
						Total Qty	20.00	56.00	1120.00

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	c) 32mm deep junction box								
58			20						
							20.00		
						Total Qty	20.00	61.00	1220.00
59	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete. a)12"x"12"x3" (330x300x76mm) (ELE SR 2023-24 Page-3, Item-1.6)								
		m							
			20				20.00		
						Total Qty	20.00	120.00	2400.00
60	b)12"x9"x3" (300x228x76)		20				20.00		
						Total Qty	20.00	115.00	2300.00
61	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. Short point upto 3Mtr from tapping point to out let via switch (ELE SR 2023-24 Page-5, Item-2.1.1)								
		Point							
			10				10.00		
						Total Quantity	10.00	285.00	2850.00
62	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) (ELE SR 2023-24 Page-5, Item-2.1.2)								
		Point							
			10				10.00		
						Total Quantity	10.00	394.00	3940.00
63	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. a) Short point up to 3Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.1)								
		Point							
			10				10.00		
						Total Quantity	10.00	269.00	2690.00

l No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
64	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.2)								
		Point							
			10				10.00		
							Total Quantity	10.00	379.00	3790.00
65	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. e) 6Moudule (ELE SR 2023-24 Page-8, Item-3.5.4)								
		Each							
			35				35.00		
							Total Quantity	35.00	234.00	8190.00
66	Supplying and fixing of modular switch & connected accessories on existing modular switch plate. (ELE SR 2023-24 Page-9, Item-3.6)								
		Each							
	a) 6Amps one way.		25				25.00		
							Total Quantity	25.00	102.00	2550.00
		Each							
67	Stepped Fan Regulator Two Module		8				8.00		
							Total Quantity	8.00	357.00	2856.00
		Each							
68	16A One Way Switch		4				4.00		
							Total Quantity	4.00	180.00	720.00
		Each							
69	32A DP Switch		2				2.00		
							Total Quantity	2.00	326.00	652.00
		Each							
70	6/16A Universal Socket		10				10.00		
							Total Quantity	10.00	236.00	2360.00
		Each							
71	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box (ELE SR 2023-24 Page-9, Item-3.7)								
		Each							
			5				5.00		
							Total Quantity	5.00	646.00	3230.00

Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. a. 1 sqmm. (ELE SR 2023-24 Page-9, Item-3.7)								
		m							
	1Sqmm		150						
							150.00		
						Total Quantity	150.00	19.00	2850.00
		m							
	1.5Sqmm		150						
							150.00		
						Total Quantity	150.00	26.00	3900.00
		m							
	6Sqmm		75						
							75.00		
						Total Quantity	75.00	92.00	6900.00
		m							
	10Sqmm		30						
							30.00		
						Total Quantity	30.00	167.00	5010.00
		Each							
	16Sqmm		50						
							50.00		
						Total Quantity	50.00	318.00	15900.00
73	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. a) 20mm (ELE SR 2023-24 Page-3, Item-1.8.1)								
		m							
			100				100.00		
						Total Quantity	100.00	28.00	2800.00
74	Supplying PVC/GI flexible conduit pip 20mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. 20mm (ELE SR 2023-24 Page-3, Item-1.9.1)								
		m							
			100				100.00		
						Total Quantity	100.00	19.00	1900.00
75	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. b) 110mm (ELE SR 2023-24 Page-9, Item-3.10.3)								
		Nos							
			15				15.00		
						Total Quantity	15.00	21.00	315.00
76	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2023-24 Page-9, Item-3.11)								
		Nos							
			20				20.00		
						Total Quantity	20.00	12.00	240.00

No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Supplying of 1 x 4' feet -PVC Batten with integrated LED tube - 20/22 W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition (ELE SR 2023-24 Page-43, Item-11.3.2)								
		Nos							
			30						
							30.00		
						Total Quantity	30.00	690.00	20700.00
78	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 10-12W (ELE SR 2023-24 Page-44, Item-11.5.2)								
		Nos							
			20						
							20.00		
						Total Quantity	20.00	885.00	17700.00
79	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty. 48" Sweep 5 Star (1200 mm) (ELE SR 2023-24 Page-30, ~~Item-6.4.1~~)								
		Each	10				10.00		
						Total Quantity	10.00	2677.00	26770.00
							Construction Total Amount		4212286.99
							Add 18% for GST Charges		758211.66
							Sub Total		4970498.65
							Miscellaneous and unforeseen charges etc.L.S		29501.35
							Grand Total Amount		50,00,000.00

Technical Sanction
Accorded For 50.00 Lakhs
Head of A/C 8-1878
CER NO: 102 Dt: 12/2

Administrative Sanction for Rs. 50.00 Lakhs
Rupees Fifty lakhs Only
is accorded under head 8.1878
Registered as No. 441 Subject
to conditions contained in enclosed memo
No BBMP/E/YNK-plgs/441/23-24 Dt: 19/8/24
Executive Engineer

Certificate:
1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of PWD & ELE 20

Assistant Engineer
Ward No.02
BBMP, Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP, Bangalore

Executive Engineer
Yelahanka Division
BBMP, Bangalore